IN THE CLAIMS:

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- 1. (Currently Amended) A plasma display panel comprising a front substrate and a back substrate that face each other with a space therebetween, the front panel having a plurality of electrodes disposed on a main surface thereof, and a dielectric film and a protective film formed sequentially to cover the electrodes, and luminescent display being performed by applying a voltage to the electrodes to cause a discharge in the space between the substrates, characterized in that:
- a plurality of needle crystals composed of a conductive substance or a semiconductor substance are disposed to penetrate at least one of the dielectric film and the protective film protective film by penetrating the dielectric film from in a thickness direction from a surface of the electrodes.
- 2. (Original) The plasma display panel of claim 1, wherein the needle crystals are disposed substantially perpendicular to the main surface of the front substrate to penetrate the protective film in a thickness direction, and a material of the protective film is layered to completely fill gaps between the needle crystals.
- (Original) The plasma display panel of claim 2, wherein the protective film material and the needle crystals form a phase-separated structure.
- (Original) The plasma display panel of claim 2, wherein the needle crystals are graphite crystals.

- 5. (Original) The plasma display panel of claim 4, wherein a metal layer composed of one or a plurality of metals selected from the group consisting of iron, cobalt, and nickel is interposed between the dielectric film and the needle crystals.
- (Original) The plasma display panel of claim 4, wherein the graphite crystals are
 one member selected from the group consisting of carbon nanotubes, graphite nanofibers, and
 diamond-like carbon.
- (Original) The plasma display panel of claim 2, wherein the needle crystals are tetrapod-shaped particles.
- (Original) The plasma display panel of claim 7, wherein the particles are composed of zinc oxide.
- (Original) The plasma display panel of claim 2, wherein tips of the needle crystals are exposed above the surface of the protective film.
- (Original) The plasma display panel of claim 2, wherein tips of the needle crystals are buried in the protective film.
- 11. (Original) The plasma display panel of claim 1, wherein the needle crystals are disposed substantially perpendicular to the main surface of the front substrate to penetrate the dielectric film in a thickness direction, and a material of the dielectric film and a material of the protective film are layered to completely fill gaps between the needle crystals.

- (Original) The plasma display panel of claim 11, wherein the dielectric film material and the needle crystals form a phase-separated structure.
- (Original) The plasma display panel of claim 11, wherein the needle crystals are graphite crystals.
- 14. (Original) The plasma display panel of claim 13, wherein a metal layer composed of one or a plurality of metals selected from the group consisting of iron, cobalt, and nickel is interposed between the electrodes and the needle crystals.
- 15. (Original) The plasma display panel of claim 13, wherein the graphite crystals are one member selected from the group consisting of carbon nanotubes, graphite nanofibers, and diamond-like carbon.
- (Original) The plasma display panel of claim 11, wherein the needle crystals are tetrapod-shaped particles.
- 17. (Original) The plasma display panel of claim 16, wherein the particles are composed of zinc oxide.
- 18. (Original) The plasma display panel of claim 11, wherein tips of the needle crystals are exposed above the surface of the protective film.
- 19. (Original) The plasma display panel of claim 11, wherein tips of the needle crystals are buried in the protective film.

- 20. (Original) The plasma display panel of claim 11, wherein the electrodes include a display electrode pair, and the needle crystals are disposed on one or both of the display electrodes in the pair.
- 21. (Original) The plasma display panel of claim 11, wherein the electrodes include a display electrode pair, and an electron emitting electrode formed between the display electrodes in the pair, and

the needle crystals are disposed on the electron emitting electrode.

- 22. (Original) The plasma display panel of claim 21, wherein when generating a sustain discharge in the space between the substrates, a sustain voltage is applied to the display electrodes, while holding the electron emitting electrode at one of ground potential and floating potential.
- 23. (Previously Presented) The plasma display panel of claim 1, wherein the protective film is composed of one or a compound of metal oxides selected from the group consisting of magnesium oxide, calcium oxide, strontium oxide, and barium oxide.